

At p. 25, Table 5, left column, please delete "sepharose" and insert therefor --
SepharoseTM--.

At p. 25, Table 6, left column, please delete "sepharose" and insert therefor --
SepharoseTM--.

After p. 26, please substitute new pages 27-36, which contain the substitute sequence
listing for the subject invention.

Please cancel the computer readable copy of the sequence listing, and enter the amended
computer readable copy of the sequence listing submitted herewith.

In the Claims:

Please cancel claims 10-16, 22 and 23 without prejudice or disclaimer of the subject
matter encompassed therein.

Please amend the following claims:

- B2
1 *Duly* Claim 1. (Amended) A method for preparing correctly folded and disulfide bond-linked
2 *C1* interferon- α by expression in *E. coli*, comprising the steps of :
3 (a) expressing interferon- α in *E. coli* [comprising] transformed with a vector
4 [in which] comprising a nucleotide sequence encoding the signal [sequence] peptide [of the gene]

1 ¹⁵ Claim ~~21~~ (Amended) The vector of claim ¹² ~~17~~, wherein said DNA molecule coding for
2 *Sub 32* interferon- α [consists essentially of] comprises the sequence:

B5

1	TGT	GAT	CTG	CCT	CAA	ACC	CAC	AGC	CTG	GGT	AGC	AGG	AGG	ACC
2	TTG	ATG	CTC	CTG	GCA	CAG	ATG	AGG	AGA	ATC	TCT	CTT	TTC	TCC
3	TGC	TTG	AAG	GAC	AGA	CGT	GAC	TTT	GGA	TTT	CCC	CAG	GAG	GAG
4	TTT	GGC	AAC	CAG	TTC	CAA	AAG	GCT	GAA	ACC	ATC	CCT	GTC	CTC
5	CAT	GAG	ATG	ATC	CAG	CAG	ATC	TTC	AAT	CTC	TTC	AGC	ACA	AAG
6	GAC	TCA	TCT	GCT	GCT	TGG	GAT	GAG	ACC	CTC	CTA	GAC	AAA	TTC
7	TAC	ACT	GAA	CTC	TAC	CAG	CAG	CTG	AAT	GAC	CTG	GAA	GCC	TGT
8	GTG	ATA	CAG	GGG	GTG	GGG	GTG	ACA	GAG	ACT	CCC	CTG	ATG	AAG
9	GAG	GAC	TCC	ATT	CTG	GCT	GTG	AGG	AAA	TAC	TTC	CAA	AGA	ATC
10	ACT	CTC	TAT	CTG	AAA	GAG	AAG	AAA	TAC	AGC	CCT	TGT	GCC	TGG
11	GAG	GTT	GTC	AGA	GCA	GAA	ATC	ATG	AGA	TCT	TTT	TCT	TTG	TCA
12	ACA	AAC	TTG	CAA	GAA	AGT	TTA	AGA	AGT	AAG	GAA	(SEQ ID NO:6)		

1 or a sequence encoding interferon- α which [is] has more than about 70% [homologous]sequence
2 identity with this sequence [and said sequence which is said homologous codes for interferon- α].

Please add the following claim:

B6 1 *Sub 33* --Claim ¹⁶ ~~24~~ (Added) The vector of claim ¹² ~~17~~, wherein said DNA molecule coding for
2 interferon- α comprises the sequence:

1 GAATTCGAGATTATCGTCACTGCAATGCTTCGCAATATGGCGCAAAATGACCAACAG
2 CGGTTGATTGATCAGGTAGAGGGGGCGCTGTACGAGGTAAAGCCCGATGCCAGCATT
3 CCTGACGACGATACGGAGCTGCTGCGCGATTACGTAAAGAAGTTATTGAAGCATCCT
4 CGTCAGTAAAAAGTTAATCTTTTCAACAGCTGTCATAAAGTTGTCACGGCCGAGACT
5 TATAGTCGCTTTTGTTTTTTATTTTTTAATGTATTTGCTCGAGAGGTTGAGGTGATTTT
6 ATG AAA AAG AAT ATC GCA TTT CTT CTT GCA TCT ATG TTC GTT
7 TTT TCT ATT GCT ACA AAT CCC TAT GCA TGT GAT CTG CCT CAA
8 ACC CAC AGC CTG GGT AGC AGG AGG ACC TTG ATG CTC CTG GCA
9 CAG ATG AGG AGA ATC TCT CTT TTC TCC TGC TTG AAG GAC AGA
10 CGT GAC TTT GGA TTT CCC CAG GAG GAG TTT GGC AAC CAG TTC
11 CAA AAG GCT GAA ACC ATC CCT GTC CTC CAT GAG ATG ATC CAG
12 CAG ATC TTC AAT CTC TTC AGC ACA AAG GAC TCA TCT GCT GCT
13 TGG GAT GAG ACC CTC CTA GAC AAA TTC TAC ACT GAA CTC TAC
14 CAG CAG CTG AAT GAC CTG GAA GCC TGT GTG ATA CAG GGG GTG
15 GGG GTG ACA GAG ACT CCC CTG ATG AAG GAG GAC TCC ATT CTG
16 GCT GTG AGG AAA TAC TTC CAA AGA ATC ACT CTC TAT CTG AAA
17 GAG AAG AAA TAC AGC CCT TGT GCC TGG GAG GTT GTC AGA GCA
18 GAA ATC ATG AGA TCT TTT TCT TTG TCA ACA AAC TTG CAA GAA
19 AGT TTA AGA AGT AAG GAA TGATAACGATCGTAACTGCA (SEQ ID NO: 7)

*Sub
33
cont*

*B6
cont*

1 or a sequence encoding interferon- α which has more than about 70% sequence identity with
2 this sequence.--